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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/993,138	11/16/2001	Jared L. Zerbe	RB1-040US	6177
44429	7590	01/19/2006	EXAMINER	
SHEMWELL MAHAMEDI LLP 4880 STEVENS CREEK BOULEVARD, SUITE 201 SAN JOSE, CA 95129			HAROLD, JEFFEREY F	
			ART UNIT	PAPER NUMBER
			2646	

DATE MAILED: 01/19/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No:	Applicant(s)	
	09/993,138	ZERBE, JARED L.	
	Examiner	Art Unit	
	Jefferey F. Harold	2646	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 16 November 2001.
 2a) This action is FINAL. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-43 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 1-43 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
 Paper No(s)/Mail Date _____.
 4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date _____.
 5) Notice of Informal Patent Application (PTO-152)
 6) Other: _____.

DETAILED ACTION

Information Disclosure Statement

1. The references listed in the Information Disclosure Statement submitted on November 16, 2001 have been considered by the examiner (see attached PTO-1449).

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. **Claims 1-43** are rejected under 35 U.S.C. 102(b) as being anticipated by Rose et al. (United States Patent 5,414,393), hereinafter referenced as Rose.

Regarding **claim 1**, Rose discloses a telecommunication connector with feedback. In addition, Rose discloses a method comprising encoding a digital signal in a manner that reduces variations over time in a collective signal level of the digital signal; communicating the digital signal over a plurality of segments of signal lines; and transposing the signal lines between the segments of signal lines in a manner that reduces differences between interline couplings of different pairs of the signal lines, as disclosed at column 3, line 53 through column 7, line 51 and exhibited in figures 1-3.

Regarding **claim 2**, Rose discloses everything claimed as applied above (see claim 1), in addition Rose discloses wherein the interline coupling of a particular pair of signal lines is represented as a function of the distances between said particular pair of

signal lines over all the segments as disclosed at column 3, line 53 through column 7, line 51 and exhibited in figures 1-3.

Regarding **claim 3**, Rose discloses everything claimed as applied above (see claim 1), in addition Rose discloses wherein the interline coupling of a particular pair of signal lines is represented as a function of a summation of the distances between said particular pair of signal lines over all the segments as disclosed at column 3, line 53 through column 7, line 51 and exhibited in figures 1-3.

Regarding **claim 4**, Rose discloses everything claimed as applied above (see claim 1), in addition Rose discloses wherein the segments have approximately equal lengths as disclosed at column 3, line 53 through column 7, line 51 and exhibited in figures 1-3.

Regarding **claim 5**, Rose discloses everything claimed as applied above (see claim 1), in addition Rose discloses wherein: the segments have approximately equal lengths; and as the interline coupling of a particular pair of signal lines is represented as a function of a summation of the distances between said particular pair of signal lines over all the segments as disclosed at column 3, line 53 through column 7, line 51 and exhibited in figures 1-3.

Regarding **claim 6**, Rose discloses everything claimed as applied above (see claim 1), in addition wherein at least two of the segments have different lengths, as disclosed at column 3, line 53 through column 7, line 51 and exhibited in figures 1-3.

Regarding **claim 7**, Rose discloses everything claimed as applied above (see claim 1), in addition Rose discloses wherein at least two of the segments have different

lengths, the different lengths being such that they reduce differences between the interline couplings of different pairs of the signal lines, as disclosed at column 3, line 53 through column 7, line 51 and exhibited in figures 1-3.

Regarding **claims 8-43**, they are inherent variations of the method claims 1-7, therefore claims 8-43 are interpreted and thus rejected for the reasons set forth above in claims 1-7.

Citation of Pertinent Art

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

Klas et al. (United States Patent 5,673,009) discloses a connector for communication systems with cancelled crosstalk.

Aekins (United States Patent 5,618,185) discloses a crosstalk noise reduction connector for telecommunication system.

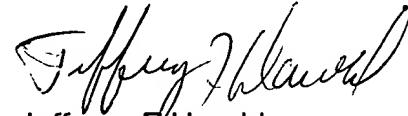
Aekins (United States Patent 6,057,743) discloses a distributed noise reduction circuits in telecommunication system connector.

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jefferey F. Harold whose telephone number is 571-272-7519. The examiner can normally be reached on Monday - Friday 9 am - 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sinh H. Tran can be reached on 571-272-7564. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Jefferey F. Harold
Primary Examiner
Art Unit 2646



JFH
January 13, 2006